







LC1D256F7

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 25 A - 110 V AC coil





Download your LC1D256F7 datasheet

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Associated fuse rating

Average impedance

[Ui] rated insulation voltage

Main ————————————————————————————————————	
Range	TeSys
Product name	TeSys D
Product or component type	Contactor
Device short name	LC1D
Contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-3
Poles description	3P
Pole contact composition	3 NO
Ue] rated operational voltage	<= 690 V AC 25400 Hz for power circuit <= 300 V DC for power circuit
le] rated operational current	25 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit 40 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit
Motor power kW	11 kW at 380400 V AC 50/60 Hz 15 kW at 500 V AC 50/60 Hz 15 kW at 660690 V AC 50/60 Hz 5.5 kW at 220230 V AC 50/60 Hz 11 kW at 415440 V AC 50/60 Hz
Motor power hp	2 hp at 115 V AC 50/60 Hz for 1 phase motors 3 hp at 230/240 V AC 50/60 Hz for 1 phase motors 5 hp at 200/208 V AC 50/60 Hz for 3 phases motors 7.5 hp at 230/240 V AC 50/60 Hz for 3 phases motors 15 hp at 460/480 V AC 50/60 Hz for 3 phases motors 20 hp at 575/600 V AC 50/60 Hz for 3 phases motors
Control circuit type	AC 50/60 Hz
Control circuit voltage	110 V AC 50/60 Hz
Auxiliary contact composition	1 NO + 1 NC
Uimp] rated impulse vithstand voltage	6 kV conforming to IEC 60947
Overvoltage category	III
lth] conventional free air hermal current	40 A at <= 60 °C for power circuit 10 A at <= 60 °C for signalling circuit
rms rated making capacity	450 A at 440 V for power circuit conforming to IEC 60947 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1
Rated breaking capacity	450 A at 440 V for power circuit conforming to IEC 60947
[lcw] rated short-time withstand current	120 A <= 40 °C 1 min power circuit 240 A <= 40 °C 10 s power circuit 380 A <= 40 °C 1 s power circuit 50 A <= 40 °C 10 min power circuit 100 A 1 s signalling circuit 120 A 500 ms signalling circuit
Associated five:	140 A 100 ms signalling circuit

40 A gG at <= 690 V coordination type 2 for power circuit 63 A gG at <= 690 V coordination type 1 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1

2 mOhm at 50 Hz - Ith 40 A for power circuit

600 V for power circuit certifications CSA

600 V for power circuit certifications UL

690 V for power circuit conforming to IEC 60947-4-1 690 V for signalling circuit conforming to IEC 60947-1

600 V for signalling circuit certifications CSA 600 V for signalling circuit certifications UL

Power dissipation per pole 3.2 W AC-1

1.25 W AC-1

Protective cover With

Mounting support Plate
Rail

Standards EN 60947-4-1

EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508

CSA C22.2 No 14

Product certifications BV

CCC CSA DNV GL GOST RINA UL LROS

Connections - terminals Control circuit : lugs-ring terminals - external diameter: 8 mm

Power circuit: lugs-ring terminals - external diameter: 10 mm

Tightening torque Control circuit: 1.7 N.m - on lugs-ring terminals - with

screwdriver flat Ø 6 mm screw : M3.5

Control circuit: 1.7 N.m - on lugs-ring terminals - with

screwdriver Philips No 2 screw : M3.5

Power circuit : 2.5 N.m - on lugs-ring terminals - with screwdriver flat \varnothing 8 mm screw : M4

Power circuit : 2.5 N.m - on lugs-ring terminals - with screwdriver Philips No 2 screw : M4 $\,$

Operating time 4...19 ms opening

12...22 ms closing

Safety reliability level B10d = 1369863 cycles contactor with nominal load conforming

to EN/ISO 13849-1

B10d = 20000000 cycles contactor with mechanical load

conforming to EN/ISO 13849-1

Mechanical durability 15 Mcycles

Operating rate 3600 cyc/h at <= 60 °C

Complementary

Hide

Coil technology Without built-in suppressor module

Control circuit voltage limits 0.3...0.6 Uc at 60 °C drop-out 50/60 Hz

0.8...1.1 Uc at 60 °C operational 50 Hz 0.85...1.1 Uc at 60 °C operational 60 Hz

Inrush power in VA 70 VA at 20 °C ($\cos \phi$ 0.75) 60 Hz

70 VA at 20 °C (cos φ 0.75) 50 Hz

Hold-in power consumption

in VA

7.5 VA at 20 °C (cos ϕ 0.3) 60 Hz 7 VA at 20 °C (cos ϕ 0.3) 50 Hz

Heat dissipation 2...3 W at 50/60 Hz

Auxiliary contacts type Type mechanically linked (1 NO + 1 NC) conforming to IEC

60947-5-1

Type mirror contact (1 NC) conforming to IEC 60947-4-1

Signalling circuit frequency 25...400 Hz

Minimum switching current 5 mA for signalling circuit
Minimum switching voltage 17 V for signalling circuit

Non-overlap time 1.5 ms on de-energisation (between NC and NO contact)

1.5 ms on energisation (between NC and NO contact)

Insulation resistance > 10 MOhm for signalling circuit

Environment

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Protective treatment TH conforming to IEC 60068-2-30 Pollution degree Ambient air temperature for -5...60 °C operation Ambient air temperature for -60...80 °C storage -40...70 °C at Uc Permissible ambient air temperature around the device Operating altitude 3000 m without derating in temperature Fire resistance 850 °C conforming to IEC 60695-2-1 Flame retardance V1 conforming to UL 94 Vibrations contactor open 2 Gn, 5...300 Hz Vibrations contactor closed 4 Gn, 5...300 Hz Shocks contactor closed 15 Gn for 11 ms Shocks contactor open 8 Gn for 11 ms Mechanical robustness Height 85 mm Width 45 mm Depth 92 mm Product weight 0.37 kg

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Contractual warranty

Period 18 months